

June 20, 2012

Ms. Mary C. Patton, P.E.
Director of Regulatory - NMSD
Range Production Company
100 Throckmorton Street, Suite 1200
Fort Worth, Texas 76102

Re: Implementation Report
First Quarterly Sampling Event – May 2012
Quarterly Residential Well Sampling Project
Parker County, Texas
EarthCon Project No. 212084.00

Dear Ms. Patton:

EarthCon Consultants, Inc. (EarthCon) is pleased to provide Range Production Company (Range) this report documenting implementation of the First Quarterly Sampling Event of the Quarterly Residential Well Sampling Project in Parker County, Texas.

All activities were conducted in accordance with EarthCon's April 25, 2012 *Revised Scope of Work and Cost Estimate (2nd Revision) for Environmental Consulting Services* (approved on April 27, 2012) and the *Final Quarterly Residential Well Sampling Work Plan*, dated May 7, 2012 (May 2012 Work Plan, see **Attachment 1**) submitted electronically to Range on May 8, 2012. This report specifically documents collection of water samples from residential wells and coordination with analytical laboratories; evaluation and interpretation of associated data were handled by other Range consultants, and hence, are not discussed in this report.

1.0 PREPARATORY ACTIVITIES

Upon receiving approval from Range, EarthCon contacted Accutest Laboratories (Accutest) and Milco Safety Rental to coordinate delivery to EarthCon's offices all needed sample containers, shipping materials and sampling equipment; coordination of delivery of sample containers and shipping materials from Isotech Laboratories (Isotech) was conducted through Mr. Alan Kornacki of Weatherford, a Range consultant.

Prior to initiating field activities, on May 9, 2012 EarthCon was provided by Mary Patton of Range a final schedule of visits for all wells/landowners listed in Table 1 of the May 2012 Work Plan that had provided authorization for sampling, except for well WW5 originally listed as owned by Mr. Brent A. Mauldin. As requested by Range, on May 12, 2012 EarthCon visited the Mauldin residence and determined that it had been recently purchased by Michael and Wendy Wells, who agreed to have

their well sampled; this information was communicated the same day via electronic mail to Ms. Patton (see **Attachment 2**).

2.0 FIELD ACTIVITIES

The EarthCon field crews mobilized to the project area on Thursday May 10, 2012, and commenced preparations for sampling, including acquiring sampling materials and calling the landowners to confirm the visits. Sampling occurred from Friday May 11, 2012 through Monday May 14, 2012 (including demobilization), and was performed in general accordance with protocols presented in detail in the May 2012 Work Plan; **Table 1** provides a summary of the samples collected.

The field work was conducted in Level D personal protective equipment (PPE), in accordance with a site-specific Health and Safety Plan (HASP), and after health and safety meetings were conducted at the start of each day. All ambient air readings demonstrated a safe environment with no health or safety concerns. No health or safety incidents occurred during EarthCon's sampling activities.

Well water samples were collected from existing sampling ports (e.g., spigots, tank inlet pipes, etc.) prior to softening or other modification/treatment of the water stream, using typical protocols presented in Appendix A of the May 2012 Work Plan. In a few instances, as noted in **Table 1**, pre-treatment water samples could not be obtained due to the manner in which the well and water treatment infrastructure was constructed (i.e., piping from the wellhead was hard-plumbed to a water treatment/softening tank, or there was no ready access to pre-treated water). In such cases, treated water was collected from existing post-treatment spigots, or samples were collected inside treatment tanks at the inlet. In addition, in the cases of wells WW10, WW18 and WW20, where samples were collected from a tank inlet, the sample for analysis at Isotech could not be obtained from these three locations as there was no room to install a hose so that the laboratory-prescribed sampling protocol could be implemented; further, piping modifications were not contemplated per the May 2012 Work Plan. Additional well water samples were collected for quality control purposes; these samples consisted of: a field duplicate (at WW9); a matrix spike/matrix spike duplicate pair (at WW7); and two trip blanks (one for each shipped cooler containing samples for analysis of volatile constituents).

All samples were labeled, packaged per laboratory instructions, and shipped to Accutest and Isotech via common courier under chain-of-custody documentation. The labels and chain-of-custody forms identified the analyses required for each sample, as established in the May 2012 Work Plan.

Pertinent field observations and measurements were recorded in well-specific field forms; photographs taken at each sampling location. The completed field forms and photographic records are grouped per well and presented in **Attachment 3**.

3.0 LABORATORY COORDINATION

EarthCon confirmed receipt of all samples at Accutest and Isotech; in addition, for samples submitted for analysis at Accutest, the sample receipt forms were reviewed to verify that samples were received in good condition and were correctly logged for the appropriate analyses.

EarthCon's laboratory coordination activities concluded by verifying that all samples were analyzed within holding time and that all analytical results were provided; analytical data packages and summary tables were directly submitted to Range via electronic mail by Accutest, and are included in **Attachment 4** for ease of reference.

4.0 CLOSING

EarthCon appreciates the opportunity to provide environmental consulting services to Range Production Company. Please do not hesitate to contact the undersigned at (281) 240-5200, if you have any questions regarding this report.

Sincerely,



for:

Earl H. Scott
Project Principal



Kathleen Buxton, P.G.
Sr. Geologist



Gabriella P. Floreslovo
Sr. Project Engineer

Enclosures:

Table 1 – Summary of Samples Collected – March 2012

Attachment 1 – Copy of April 2012 Work Plan

Attachment 2 – Message Documenting Verbal Agreement for Sampling WW5

Attachment 3 – Well-Specific Field Forms and Photographic Records

Attachment 4 – Well-Specific Data Packages and Summary Tables (as submitted by Accutest)